Wetland Categorization Worksheet

Choices	Circle one	0-	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NÖ	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the welland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, loca or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.
uno metrica :			

	Fina	al Category	
Choose one	/ Category 1)	Category 2	Category 3
			11

End of Ohio Rapid Assessment Method for Wetlands.

Wetland H - Ironville Pipeline

Background Information

Name: S. Peffer / N. Daniels					
Date: April 5, 2018					
Affiliation: Utility Technologies International, Inc.					
Address: 4700 Homer Ohio Lane, Groveport, OH					
Phone Number: 614-482-8080					
e-mail address: speffer@uti-corp.com					
Name of Wetland H					
Vegetation Communit(les): Emergent					
HGM Class(es): Depressional					
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.					
See Wetland maps					
Lat/Long or UTM Coordinate 41deg40'4.48"N / 83deg28'24.55"W					
USGS Quad Name Oregon, Ohio-Michigan					
County Lucas					
Township Oregon					
Section and Subsection					
Hydrologic Unit Code Lower Maumee - 04100010					
Site Visit April 5, 2018					
National Wetland Inventory Map					
Ohio Wetland Inventory Map Soil Survey					
Delineation report/map					
Delitieshort tepotoniap					

	Vetland H	
Wetland Size (acres, i		
Sketch: Include north	n arrow, relationship with other surface waters, vegetation zones, etc.	\times
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	(uet	# (
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/		
	1026	
	KR (
		gr.
		× 1/
		10
Comments, Narrative	Discussion, Justification of Category Changes:	
	. 1 1	
	NA	
	V =	
Final score :	Cate	egory:

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.		
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.		
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	/	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		/
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		A
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/dnap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	1
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	Go to Question 2
	has had critical habitat proposed (65 FR 41812 July 6, 2000).	NEG	(0)
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland.	Go to Question 3
		Go to Question 3	P
3	Documented High Quality Wetland. Is the wetland on record in	YES	NO/
	Natural Heritage Database as a high quality wetland?	Wetland is a Category 3 wetland	Go to Question 4
		Go to Question 4	1
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland	NO Go to Question 5
		GO to Question 5	
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	Wetland is a Category 1 wetland Go to Question 6	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no	YES	NO
	significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	Wetland is a Category 3 wetland	Go to Question 7
	, , , , , , , , , , , , , , , , , , , ,	Go to Question 7	()
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Welland is a Category 3 welland Go to Question 8a	Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	(NO)
	forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100	Wetland is a Category 3 wetland.	Go to Question 8b
	years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	

			\wedge
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	(NO)
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
9c	Are Lake Erie water levels the wetland's primary hydrological influence,	Go to Question 10 YES	NO
36	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border atterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be evaluated for possible Category 3 status	NO Ga to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	Go to Question 10 YES	NO
10	Lucas, Fulton, Henry, or Wood Counties and can the wetland tocated in Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this	Wetland is a Category 3 wetland. Go to Question 11	Go to Question 11
	type of wetland and its quality.		
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	YES Wetland should be evaluated for possible Category 3 status Complete Quantitative Rating	Complete Quantitative Rating

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	Oak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensi
Myriophyllum spicatum	Cacalia plantaginca	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricte
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherode
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaum
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellit
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwell
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrews
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum	_ •	Helianthus grosseserratu
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicat
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflor
	Parnassia glauca	Schechzeria palustris		Lythrum alatu
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianu
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceu
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutai
	Salix candida	Vaccinium oxycoccos		Spartina pectina
	Salix myricoides	Woodwardia virginica		Solidago riddeli
	Salix serissima	Xyris difformis		•
	Solidago ohioensis	2		
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: Wetland H - Ironville Pipeline	Rater(s): S. Peffer/N. Daniels	Date: April 5, 2018
Metric 1. Wetland	Area (size).	
Select one size class and assign >50 acres (>20.2ha) (6 25 to <50 acres (10.1 to 10 to <25 acres (4 to < 3 to <10 acres (1.2 to < 0.3 to <3 acres (0.12 to < 0.1 to <0.3 acres (0.04 <0.1 acres (0.04ha) (0	pts) o <20.2ha) (5 pts) 10.1ha) (4 pts) (4ha) (3 pts) o <1.2ha) (2pts) to <0.12ha) (1 pt)	
Metric 2. Upland	buffers and surrounding land u	se.
WIDE. Buffers average MEDIUM. Buffers average NARROW. Buffers average VERY NARROW. Buffers average VERY LOW. 2nd grow LOW. Old field (>10 years) MODERATELY HIGH.	th. Select only one and assign score. Do not double check a 50m (164ft) or more around wetland perimeter (7) rage 25m to <50m (82 to <164ft) around wetland perimeter grage 10m to <25m (32ft to <82ft) around wetland perimeter grage 10m to <25m (32ft to <82ft) around wetland perimeter (0) use. Select one or double check and average. (7) the or older forest, prairie, savannah, wildlife area, etc. (7) grass), shrub land, young second growth forest. (5) Residential, fenced pasture, park, conservation tillage, newels, open pasture, row cropping, mining, construction. (1)	(4) er (1)
Sis 65 Metric 3. Hydrolo	gy.	
max 30 pts. sublotal 3a. Sources of Water. Score all High pH groundwater (Other groundwater (3) Y Precipitation (1) Seasonal/Intermittent seasonal surface water	5)	
3c. Maximum water depth. Sele >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27 <a< th=""><th>ct only one and assign score. Semi- to per Regularly in Seasonally</th><th>manently inundated/saturated (4) nundated/saturated (3) inundated (2) saturated in upper 30cm (12in) (1)</th></a<>	ct only one and assign score. Semi- to per Regularly in Seasonally	manently inundated/saturated (4) nundated/saturated (3) inundated (2) saturated in upper 30cm (12in) (1)
None or none apparent Recovered (7) Recovering (3) Recent or no recovery	(12) Check all disturbances observed J ditch	
4.5 Metric 4. Habitat	Alteration and Development.	tank location
max 20 pts. subtotal 4a. Substrate disturbance. Scor None or none apparent Recovered (3) Recovering (2) Recent or no recovery 4b. Hábitat development. Select Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) X Poor (1)	(1)	
4c. Habitat alteration. Score one None or none apparent		
Recovered (6) Recovering (3) Recent or no recovery subtotal this page last revised 1 February 2001 jim	mowing shrub/saplin grazing herbaceous	Vaquatic bed removal on

Site: We	etland H -	tronville Pipeline	Rater(s	S. Peffer/N	I. Daniels	Date: April 5, 2018
sul	// l	i				
B	11	Metric 5. Special	Wetland	ds.		
max 10 pts.	subtotal	Check all that apply and score as Bog (10) Fen (10) Old growth forest (10) Mature forested wetlan Lake Erie coastal/tribut Lake Erie coastal/tribut Lake Plain Sand Prairie Relict Wet Prairies (10) Known occurrence stat Significant migratory so Category 1 Wetland. S	id (5) tary wetland-un tary wetland-res es (Oak Openir) te/federal threa ongbird/water fo See Question 1	stricted hydrolo ngs) (10) tened or endan owl habitat or u Qualitative Rat	gy (5) gered species (10) sage (10) ting (-10)	
1	12	Metric 6. Plant co	ommunit	ties, inte	rspersion, microt	opography.
max 20 pts	subtotal	6a. Wetland Vegetation Commu	nities.	Vegetation C	ommunity Cover Scale	
		Score all present using 0 to 3 sca	ale.	0	Absent or comprises <0.1ha (0.2	
		Aquatic bed		1	Present and either comprises sn	•
		Emergent			vegetation and is of moderate	
		Shrub			significant part but is of low qui	
		O Forest		2	Present and either comprises sig	-
		Mudflats Open water			vegetation and is of moderate part and is of high quality	quality of comprises a small
		Other		3	Present and comprises significan	of part or more of wetland's
		6b. horizontal (plan view) Intersp	nersion :	Ü	vegetation and is of high qualit	
		Select only one.	01310111		regetation and is of high qualit	,
		High (5)		Narrative Des	scription of Vegetation Quality	
		Moderately high(4)		low	Low spp diversity and/or predom	inance of nonnative or
		Moderate (3)		36	disturbance tolerant native spe	cies
		Moderately low (2)		mod	Native spp are dominant compor	
		Low (1)			although nonnative and/or dist	
		None (0)			can also be present, and speci	
		6c. Coverage of invasive plants.			moderately high, but generally	
		to Table 1 ORAM long form for lis	st, Add	blab	threatened or endangered spp	
		or deduct points for coverage Extensive >75% cover	(E)	high	A predominance of native specie and/or disturbance tolerant nat	
		Moderate 25-75% cover	• •		absent, and high spp diversity	* *
		Sparse 5-25% cover (-			the presence of rare, threatens	
		Nearly absent <5% co				ro, or ottoring to opp
		Absent (1)	(-,	Mudflat and	Open Water Class Quality	
		6d. Microtopography.		0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 sca	ale.	1	Low 0.1 to <1ha (0.247 to 2.47 a	cres)
		Vegetated hummucks/	tussucks	2	Moderate 1 to <4ha (2.47 to 9.8	8 acres)
		Coarse woody debris >	15cm (6in)	3	High 4ha (9.88 acres) or more	
		Standing dead >25cm Amphibian breeding po	• •	Microtopogra	aphy Cover Scale	
				0	Absent	
				1	Present very small amounts or if of marginal quality	· · · · · · · · · · · · · · · · · · ·
				2	Present in moderate amounts, be quality or in small amounts of t	
				3	Present in moderate or greater a	
10					and of highest quality	······

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM Summary Worksheet

		circle	
		answer or	
		insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES (NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES (NO)	If yes, Category 3.
	Question 7. Fens	YES (NO)	if yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	0	
	Metric 2. Buffers and surrounding land use	/	
	Metric 3. Hydrology	33	
	Metric 4. Habitat	45	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography		
	TOTAL SCORE	12	Category based on score breakpoints

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

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Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	0	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	NO)	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
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Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
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Final Category						
Choose one	/Category 1	Category 2	Category 3			

End of Ohio Rapid Assessment Method for Wetlands.

Wetland J - Ironville Pipeline

Background Information

S. Peffer / N. Daniels
April 5, 2018
Affiliation: Utility Technologies International, Inc.
Address: 4700 Homer Ohio Lane, Groveport, OH
Phone Number: 614-482-8080
e-mail address: speffer@uti-corp.com
Name of Wetland J
Vegetation Communit(les): Emergent
HGM Class(es): Depressional
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.
+ 1
See wetland mays,
'
Lat/Long or UTM Coordinate 41deg40'4.48"N / 83deg28'24.55"W
Oregon, Ohio-Michigan
Lucas
Township Oregon Oregon
Section and Subsection
Hydrologic Unit Code Lower Maumee - 04100010
Site Visit April 5, 2018
National Wetland Inventory Map
Ohio Wetland Inventory Map
Soil Survey
Delineation report/map

Name of Wetland: W	etland J			
Wetland Size (acres, h	ectares): 0./24		/	
Sketch: Include north	arrow, relationship with other's	urface waters, vege	tation zones, etc.	
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Comments, Narrative	Discussion, Justification of Cat	egory Changes:		/4
		NA		
		1011		
		-		
Final score :	12		Category:	

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.		
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	1	
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	V	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		V
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.	1	

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/dnap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	1
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical	YES Wetland should be	NO Go to Question 2
	habitat* for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or	evaluated for possible Category 3 status	
	threatened species which can be found in Ohlo, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	Go to Question 2	C 1
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed	YES	(N9)
	threatened or endangered plant or animal species?	Wetland is a Category 3 wetland.	Go to Question 3
		Go to Question 3	10
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES	NO
		Wetland is a Category 3 wetland	Go to Question 4
		Go to Question 4	65
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding	YES	NO
	waterfowl, neotropical songbird, or shorebird concentration areas?	Wetland is a Category 3 wetland	Go to Question 5
		Go to Question 5	
5	Category 1 Wetlands. is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of	ES	NO
	vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or	Wetland is a Category 1 wetland	Go to Question 6
	no vegetation?	Go to Question 6	1
ĵ	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses,	YES	(NO)
	particularly Sphagnum spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	Wetland is a Category 3 wetland	Go to Question 7
		Go to Question 7	1
_	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free	YES	(N9'
	flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of	Welland is a Category 3 wetland	Go to Question 8a
	invasive species listed in Table 1 is <25%?	Go to Question 8a	
Ba	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	(NO /
	forest characterized by, but not limited to, the following characteristics:	Meland is a Cata	Sa to Overeti Ob
	overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence	Wetland is a Category 3 wetland.	Go to Question 8b
	of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	

8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of	YES	(NO)
	deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible	Go to Question 9a
		Category 3 status.	
		Go to Question 9a	7
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at	YES	100
	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to	YES	NO
	prevent erosion and the loss of aquatic plants, i.e. the wetland is	M	
	partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible	Go to Question 9c
	andware dives of other flydrological controls?	Category 3 status	
9c	As I also Esia visitas lavala the visitandia esiman, hudani esiman	Go to Question 10	NO
90	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland	YES	NO
	border alterations), or the wetland can be characterized as an	Go to Question 9d	Go to Question 10
	"estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth		
	wetlands, or those dominated by submersed aquatic vegetation.		
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category	Go to Question 9e
	Hauve species call also be present?	3 wetland	Go to Question se
		1	
9e	Does the wetland have a predominance of non-native or disturbance	Go to Question 10 YES	NO
-	tolerant native plant species within its vegetation communities?	160	NO
		Wetland should be	Go to Question 10
		evaluated for possible Category 3 status	
		Caregory o states	
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be	YES	(NO)
	characterized by the following description: the wetland has a sandy	Wetland is a Category	Go to Question 11
	substrate with interspersed organic matter, a water table often within	3 wetland.	
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be	Go to Question 11	
	present). The Ohio Department of Natural Resources Division of		
	Natural Areas and Preserves can provide assistance in confirming this		0
11	type of wetland and its quality. Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	NO
• •	dominated by some or all of the species in Table 1. Extensive prairies		
	were formerly located in the Darby Plains (Madison and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties).	evaluated for possible Category 3 status	Quantitative Rating
	and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,		
	Montgomery, Van Wert etc.).	Complete Quantitative	
		Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensi
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis strict
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherode
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaum
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellis
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwell
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrews
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserrati
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spica
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflo
27	Parnassia glauca	Schechzeria palustris		Lythrum alatu
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianu
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceu
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nuta
	Salix candida	Vaccinium oxycoccos		Spartina pectina
	Salix myricoides	Woodwardia virginica		Solidago riddel
	Salix serissima	Xyris difformis		3
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: Wetland J -	Ironville Pipeline	Rater(s): S. Peffer/N. Daniels		Date: April 5, 2018
00	Metric 1. Wetland	Area (size).		
max 6 pts. subtotal	Select one size class and assign sc	s) 20.2ha) (5 pts) 1ha) (4 pts) a) (3 pts) 1.2ha) (2pts) <0.12ha) (1 pt)		
1 (Metric 2. Upland be	uffers and surroundi	ing land use.	
max 14 pts. subtotal	WIDE. Buffers average 5 MEDIUM. Buffers average NARROW. Buffers average VERY NARROW. Buffers average 5 LOW. Old field (>10 year MODERATELY HIGH. R	Select only one and assign score. D Om (164ft) or more around wetland pe e 25m to <50m (82 to <164ft) around ge 10m to <25m (32ft to <82ft) around s average <10m (<32ft) around wetlan e. Select one or double check and a or older forest, prairie, savannah, wild s), shrub land, young second growth f esidential, fenced pasture, park, conse	erimeter (7) wetland perimeter (4) d wetland perimeter (1) d perimeter (0) verage. life area, etc. (7) forest. (5) ervation tillage, new fallo	ow field. (3)
55 65	Metric 3. Hydrolog		onsudedon. (1)	
max 30 pts. subtotal	3a. Sources of Water. Score all that High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surful Perennial surface water (I) 3c. Maximum water depth. Select (I) >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) (1) 3e. Modifications to natural hydrolo	ace water (3) ake or stream) (5) 3d. only one and assign score.	Part of wetland/u Part of riparian or Duration inundation/sat Semi- to permand Regularly inunda Seasonally inunda Seasonally satura	nin (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one or dbl check. ently inundated/saturated (4) ted/saturated (3)
- L	None or none apparent (1) Recovered (7) Recovering (3) Recent or no recovery (1)	ditch tile	point source (nor filling/grading road bed/RR trace dredging other formal points)	·
4.5 11	Metric 4. Habitat A	lteration and Develo		location
max 20 pts. subtotal	4a. Substrate disturbance. Score of None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select or Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1))		
	4c. Habitat alteration. Score one of None or none apparent (9			
subtotal this pa	-	mowing grazing clearcutting selective cutting woody debris removal toxic pollutants	shrub/sapling ren herbaceous/aqua sedimentation dredging farming nutrient enrichme	itic bed removal

Site: We	etland J - I	ronville Pipeline	Rater(s): S. Peffer/N	. Daniels	Date: April 5, 2018
su	btotal first pa	Metric 5. Special	Wetland	ls.		
mex 10 pts.	subtotal	Chack all that apply and score as	indicated			
max 10 pts.	SUULUL	Check all that apply and score as Bog (10) Fen (10) Old growth forest (10) Mature forested wetlan Lake Erie coastal/tribut Lake Plain Sand Prairie Relict Wet Prairies (10) Known occurrence stat Significant migratory so Category 1 Wetland, S	d (5) ary wetland-unr ary wetland-res as (Oak Openin e/federal threat angbird/water fo	tricted hydrolo gs) (10) ened or endan wl habitat or u	gy (5) gered species (10) sage (10)	
1	12	Metric 6. Plant co	mmunit	ies, inte	rspersion, microto	ppography.
max 20 pts.	subtotal	6a. Wetland Vegetation Commun		Vegetation C	ommunity Cover Scale	
		Score all present using 0 to 3 sca	le.	0	Absent or comprises <0.1ha (0.24	
		Aquatic bed		1	Present and either comprises sma vegetation and is of moderate of	•
		Emergent Shrub			significant part but is of low qua	
		Forest		2	Present and either comprises sign	
		() Mudflats		-	vegetation and is of moderate q	
		Open water			part and is of high quality	
		Other		3	Present and comprises significant	part, or more, of wetland's
		6b. horizontal (plan view) Intersp	ersion.	_	vegetation and is of high quality	
		Select only one.				
		High (5)		Narrative Des	scription of Vegetation Quality	
		Moderately high(4)		low	Low spp diversity and/or predomin	nance of nonnative or
		Moderate (3)			disturbance tolerant native spec	
		Moderately low (2)		mod	Native spp are dominant compone	
		Low (1)			although nonnative and/or distu	
		None (0)	D-f		can also be present, and specie	
		6c. Coverage of invasive plants. to Table 1 ORAM long form for lis			moderately high, but generally was threatened or endangered spp	wo presence or rare
		or deduct points for coverage	Auu	high	A predominance of native species	with nonnative can
		Extensive >75% cover	(-5)	111911	and/or disturbance tolerant nativ	
		Moderate 25-75% cove	` '		absent, and high spp diversity a	
		Sparse 5-25% cover (-			the presence of rare, threatened	
		Nearly absent <5% cov	100 (100 (1)		• •	
		Absent (1)		Mudflat and (Open Water Class Quality	
		6d. Microtopography.		0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 sca		1	Low 0.1 to <1ha (0.247 to 2.47 ac	cres)
		Vegetated hummucks/l		2	Moderate 1 to <4ha (2.47 to 9.88	acres)
		Coarse woody debris >		3	High 4ha (9.88 acres) or more	
		Standing dead >25cm		nation :		
		Amphibian breeding po	OIS		phy Cover Scale	
				0	Absent	more common
					Present very small amounts or if r of marginal quality	HOLE COUNTROL
				2	Present in moderate amounts, bu	t not of highest
				2	quality or in small amounts of hi	_
					Present in moderate or greater ar	
	1			5	and of highest quality	71V41104

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM Summary Worksheet

		circle answer or insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES (NO)	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES (NO	If yes, Category 3.
	Question 7. Fens	YES (NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (NO)	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	0	
	Metric 2. Buffers and surrounding land use	7 18	
	Metric 3. Hydrology	5.5	
	Metric 4. Habitat	4.5	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	1	
	TOTAL SCORE	12	Category based on score breakpoints

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one	2	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3-status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	(NO)	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO)	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, blological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, loca or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

	Fin	al Category	
Choose one	/ Category 1)	Category 2	Category 3
			20.

End of Ohio Rapid Assessment Method for Wetlands.

Wetland K - Ironville Pipeline

Background Information

S. Peffer / N. Daniels
Date: April 5, 2018
Affiliation: Utility Technologies International, Inc.
4700 Homer Ohio Lane, Groveport, OH
Phone Number: 614-482-8080
e-mail address: speffer@uti-corp.com
Name of Wetland K
Vegetation Communit(les): Emergent
HGM Class(es): Depressional
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.
See Wetland ways.
Lat/Long or UTM Coordinate 41deg40'4.48"N / 83deg28'24.55"W USGS Quad Name Consequence Chica Minkings
Oregon, Onio-Michigan
Township Oregon
Section and Subsection
Hydrologic Unit Code Lower Maumee - 04100010
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Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		1
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/dnap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

Wetland should be evaluated for possible Category 3 status Go to Question 2 YES Wetland is a Category 3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland is a Category 3 wetland. Go to Question 4 YES	NO Go to Question 2 NO Go to Question 3
Wetland should be evaluated for possible Category 3 status Go to Question 2 YES Wetland is a Category 3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland is a Category 3 wetland.	Go to Question 2 NO Go to Question 3 NO Go to Question 4
evaluated for possible Category 3 status Go to Question 2 YES Wetland is a Category 3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 3 NO Go to Question 4
Category 3 status Go to Question 2 YES Wetland is a Category 3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 3 (NO) Go to Question 4
Go to Question 2 YES Wetland is a Category 3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 3 NO Go to Question 4
Wetland is a Category 3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 3 NO Go to Question 4
Wetland is a Category 3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 3 NO Go to Question 4
Wetland is a Category 3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 3 NO Go to Question 4
3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
3 wetland. Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
Go to Question 3 YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
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YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
3 wetland Go to Question 4	Go to Question 4
3 wetland Go to Question 4	
Go to Question 4	(NO)
	(NO)
	(NO)
	IZ DESCRIPTION OF THE PROPERTY
Wetland is a Category	Go to Question 5
3 wetland	
Coto Ouestion 5	
	NO
Wetland is a Category	Go to Question 6
YES	NO I
1	(T)
	Go to Question 7
3 welland	
Go to Question 7	
	,NO)
1 - 2 -	
Welland is a Calegory	Go to Question 8a
3 wetland	
Go to Ouestion 8a	
	NO)
1 . 20	
Wetland is a Category	Go to Question 8b
3 wetland.	
Co to Ouseties Sh	
Go to Question 60	
	Wetland is a Category 3 wetland Go to Question 5 Wetland is a Category 1 wetland Go to Question 6 YES Wetland is a Category 3 wetland Go to Question 7 YES Wetland is a Category 3 wetland Go to Question 7 YES Wetland is a Category 3 wetland Go to Question 8a YES

			\bigcirc
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally	YES Wetland should be	NO Go to Question 9a
	diameters greater than 45cm (17.7in) dbh?	evaluated for possible Category 3 status.	GO TO CLUESTION 54
		Go to Question 9a	A
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	NO 1
9b	elevation, or along a tributary to Lake Erie that is accessible to fish? Does the wetland's hydrology result from measures designed to	Go to Question 9b YES	Go to Question 10
30	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to takeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9c
		Go to Question 10	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland	YES	NO
	border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
	3	Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be	NO Go to Question 10
		evaluated for possible Category 3 status	Go to Greatful 10
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be	YES	NO
	characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this	Go to Question 11	
	type of wetland and its quality.		
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies	YES (NO
	were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion	Wetland should be evaluated for possible	Complete Quantitative
	Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	Category 3 status	Rating
	Montgomery, Van Wert etc.).	Complete Quantitative Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	Oak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadens
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis strici
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherode
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaun
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pelli
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwell
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrew
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserrat
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spica
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflo
77	Parnassia glauca	Schechzeria palustris		Lythrum alatı
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginiam
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaces
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nuta
	Salix candida	Vaccinium oxycoccos		Spartina pectina
	Salix myricoides	Woodwardia virginica		Solidago riddel
	Salix serissima	Xyris difformis		5
	Solidago ohioensis	3,		
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: Wetland K - Ironville Pipeline	Rater(s): S. Peffer/N. Daniels		Date: April 5, 2018
Metric 1. Wetland	Area (size).		
max 6 pts. subtotal Select one size class and assign sc >50 acres (>20.2ha) (6 pt			
25 to <50 acres (10.1 to <	20.2ha) (5 pts)		
10 to <25 acres (4 to <10. 3 to <10 acres (1.2 to <4h			
0.3 to <3 acres (0.12 to <	1.2ha) (2pts)		
0.1 to <0.3 acres (0.04 to			
X < 0.1 acres (0.04ha) (0 pts		na land	
((uffers and surroundi		?.
	Select only one and assign score. Do Im (164ft) or more around wetland per		
MEDIUM. Buffers averag	e 25m to <50m (82 to <164ft) around v	vetland perimeter (4)	
	ge 10m to <25m (32ft to <82ft) around average <10m (<32ft) around wetland		1)
2b. Intensity of surrounding land us	 Select one or double check and av 	erage.	
	or older forest, prairie, savannah, wildli		
	s), shrub land, young second growth fo esidential, fenced pasture, park, conse		allow field. (3)
HIGH. Urban, industrial,	ppen pasture, row cropping, mining, co	nstruction. (1)	
5,5 6.5 Metric 3. Hydrolog	y		
max 30 pts. sublotal 3a. Sources of Water. Score all that	t apply. 3b. (Connectivity. Score	all that apply.
High pH groundwater (5)		100 year flood	
Other groundwater (3) Precipitation (1)			m/lake and other human use (1) l/upland (e.g. forest), complex (1)
Seasonal/Intermittent surf		Part of riparian	or upland corridor (1)
Perennial surface water (I 3c. Maximum water depth. Select (aturation. Score one or dbl check anently inundated/saturated (4)
>0.7 (27.6in) (3)		Regularly inun	dated/saturated (3)
0.4 to 0.7m (15.7 to 27.6ir <0.4m (<15.7in) (1)	1) (2)	Seasonally inu	
3e. Modifications to natural hydrolo	gic regime. Score one or double checi	k and average.	urated in upper 30cm (12in) (1)
	2) Check all disturbances observed		
Recovered (7)	ditch	point source (n	onstormwater)
Recovering (3) Recent or no recovery (1)	tile dike	filling/grading road bed/RR tr	ack
	weir	dredging ,-	1114
	stormwater input	Lother Town	man Mul
4.5 Metric 4. Habitat A	Iteration and Develo	pment.	tent location
max 20 pts. subtotal 4a. Substrate disturbance. Score of			
None or none apparent (4 Recovered (3))		
Recovering (2)			
Recent or no recovery (1)	lungs and Englander		
'4b. Håbitat development. Select or Excellent (7)	lly one and assign score.		
Very good (6)			
Good (5) Moderately good (4)			
Fair (3)			
Poor to fair (2) Poor (1)			
4c. Habitat alteration. Score one or	double check and average.		
None or none apparent (9			
Recovered (6)	mowing	shrub/sapling r	
Recovering (3) Recent or no recovery (1)	grazing clearcutting	herbaceous/aq	uatic bed removal
The state of the teachery (1)	selective cutting	dredging	
[/\]	woody debris removal	farming	maat
subtotal this page	toxic pollutants	nutrient enrichr	nent
last revised 1 February 2001 jjm			

Site: We	tland K -	Ironville Pipeline Rat	er(s): S. Peffer/N	I. Daniels	Date: April 5, 2018
su	blotal first pa	ge			
0	N	Metric 5. Special Wetl	ands.		
max 10 pts.	subtotal	Check all that apply and score as indicated Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetla Lake Erie coastal/tributary wetla Lake Plain Sand Prairies (Oak C Relict Wet Prairies (10) Known occurrence state/federal Significant migratory songbird/w Category 1 Wetland. See Ques	nd-unrestricted hydro nd-restricted hydrolo penings) (10) threatened or endan ater fowl habitat or u tion 1 Qualitative Rai	ngy (5) ngered species (10) nsage (10) ting (-10)	
/	12	Metric 6. Plant commu	unities, inte	erspersion, microt	opography.
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.	Vegetation C	ommunity Cover Scale	
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.3	2471 acres) contiguous area
		Aquatic bed	1	Present and either comprises sr	mall part of wetland's
				vegetation and is of moderate	quality, or comprises a
		() Shrub		significant part but is of low qu	ıality
		Forest	2	Present and either comprises si	gnificant part of wetland's
		O Mudflats		vegetation and is of moderate	quality or comprises a small
		() Open water		part and is of high quality	
		Other	3	Present and comprises significa	nt part, or more, of wetland's
		6b. horizontal (plan view) Interspersion.	•	vegetation and is of high quali	-
		**		vegetation and is or night quali	ty
		Select only one.	Nacrativo Do	scription of Vagatation Quality	
		High (5)	-	scription of Vegetation Quality	
		Moderately high(4)	low	Low spp diversity and/or predon	
		Moderate (3)		disturbance tolerant native spo	· · · · · · · · · · · · · · · · · · ·
		Moderately low (2)	mod	Native spp are dominant compo	_
		Low (1)		although nonnative and/or dis	
		None (0)		can also be present, and spec	
		6c. Coverage of invasive plants. Refer		moderately high, but generally	
		to Table 1 ORAM long form for list. Add		threatened or endangered spr	
		or deduct points for coverage	high	A predominance of native speci-	
		Extensive >75% cover (-5)		and/or disturbance tolerant na	
		Moderate 25-75% cover (-3)		absent, and high spp diversity	•
		Sparse 5-25% cover (-1)		the presence of rare, threaten	ed, or endangered spp
		Nearly absent <5% cover (0)			
		Absent (1)	Mudflat and	Open Water Class Quality	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47	acres)
		Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.8	38 acres)
		Coarse woody debris >15cm (6i	n) 3	High 4ha (9.88 acres) or more	
		Standing dead >25cm (10in) db	h		
		Amphibian breeding pools		aphy Cover Scale	
		tajani '	0	Absent	
			1	Present very small amounts or i of marginal quality	f more common
			2	Present in moderate amounts, t	out not of highest
			2	quality or in small amounts of	
			3	Present in moderate or greater	amounts
	1			and of highest quality	

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM Summary Worksheet

		circle answer or insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (NO)	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES MO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	0	
3.80	Metric 2. Buffers and surrounding land use	1	
	Metric 3. Hydrology	5.5	
	Metric 4. Habitat	4.5	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	1	
	TOTAL SCORE	12	Category based on score breakpoints

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one	0	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO C	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	(NO)	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO)	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all Instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	(NO)	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

	Fin	al Category	
Choose one	/Category 1/	Category 2	Category 3
			- 10

End of Ohio Rapid Assessment Method for Wetlands.

Wetland L - Ironville Pipeline

Background Information

<u> </u>	
Name: S. Peffer / N. Daniels	
Date: April 5, 2018	
Affiliation: Utility Technologies International, Inc.	
Address: 4700 Homer Ohio Lane, Groveport, OH	
Phone Number: 614-482-8080	
e-mail address: speffer@uti-corp.com	
Name of Wetland: Wetland L	
Vegetation Communit(les): Emergent	
HGM Class(es): Depressional	
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.	
See wetland maps	
See wellows 11 mgs	
Lat/Long or UTM Coordinate 41deg40'4.48"N / 83deg28'24.55"W	ī
Oregon, Ohio-Michigan	
Lucas	
Township Oregon	
Section and Subsection	
Hydrologic Unit Code Lower Maumee - 04100010	
Site Visit April 5, 2018	
National Wetland Inventory Map	
Ohio Wetland Inventory Map	
Soil Survey	
Delineation report/map	

Name of Wetland: Wetland L	7 7 2		
Wetland Size (acres, hectares):	0.11	-4-41	
sketch: include north arrow, relation	nship with other surface waters, veg	etation zones, etc.	
		Δ	- Andrews Revenue of the Control of
			I—
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			Λ
			1
			N
Comments Namativa Discussion II	ustification of Catogony Changes		- 7 -
Comments, Narrative Discussion, Ju	usuncation of Category Changes.		
	. 1		
	NA		
	/ 4/[
Final score :		Category:	

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	/	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	V	
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	/	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		/
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		/
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		V

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/dnap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	<u> </u>
1	Critical Habitat. Is the wetland in a township, section, or subsection of	YES	(NO)
	a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical	Wetland should be	Go to Question 2
	habitat" for any threatened or endangered plant or animal species?	evaluated for possible	GO to Question 2
	Note: as of January 1, 2001, of the federally listed endangered or	Category 3 status	
	threatened species which can be found in Ohio, the Indiana Bat has		
	had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000)	Go to Question 2	
2	Threatened or Endangered Species. Is the wetland known to contain	YES	(NO)
_	an individual of, or documented occurrences of federal or state-listed	120	
	threatened or endangered plant or animal species?	Wetland is a Category	Go to Question 3
		3 wetland.	
		Go to Question 3	
3	Documented High Quality Wetland. Is the wetland on record in	YES	(NO)
	Natural Heritage Database as a high quality wetland?		
		Wetland is a Category	Go to Question 4
		3 wetland	
		Go to Question 4	
4	Significant Breeding or Concentration Area. Does the wetland	YES	/NO
•	contain documented regionally significant breeding or nonbreeding	123	
	waterfowl, neotropical songbird, or shorebird concentration areas?	Wetland is a Category	Go to Question 5
	3/3/01A 1/2 3/4	3 wetland	
		Go to Question 5	
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre)	(YES)	NO
	In size and hydrologically isolated and either 1) comprised of	W-#	Co to Overtion C
	vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or	Wetland is a Category 1 wetland	Go to Question 6
	2) an acidic pond created or excavated on mined lands that has little or	1 WCUBIIG	
	no vegetation?	Go to Question 6	2
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no	YES	(NO)
	significant inflows or outflows, 2) supports acidophilic mosses,	Matland la - Catana	Go to Question 7
	particularly Sphagnum spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the	Wetland is a Category 3 wetland	Go to Question /
	cover of invasive species (see Table 1) is <25%?	o motionio	
		Go to Question 7	1
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that	YES	(NO)
	is saturated during most of the year, primarily by a discharge of free	Malland in a Oatana	Co to Constinue Si
	flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of	Wetland is a Category 3 wetland	Go to Question 8a
	invasive species listed in Table 1 is <25%?	3 Welland	
	THE STATE OF COLOR WITH THE PARTY TO THE PARTY	Go to Question 8a	2
8a	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	NO)
	forest characterized by, but not limited to, the following characteristics:	147-41	
	overstory canopy trees of great age (exceeding at least 50% of a	Wetland is a Category 3 wetland.	Go to Question 8
	projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100	5 wetiand.	
	years; an all-aged structure and multilayered canopies; aggregations of	Go to Question 8b	
	canopy trees interspersed with canopy gaps; and significant numbers		
	of standing dead snags and downed logs?		

			\nearrow
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally	YES (NO Go to Question 9a
	diameters greater than 45cm (17.7in) dbh?	evaluated for possible Category 3 status.	
		Go to Question 9a	
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	NO
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 10	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland	YES	NO II 10
	border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Ga to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	2
90	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be	Go to Question 10
		evaluated for possible Category 3 status	So to Question 10
		Go to Question 10	1
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be	YES	(NO)
	characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this	Go to Question 11	
-44	type of wetland and its quality.	VEC	(1)(2)
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union	YES Wetland should be	(NO) Complete
	Counties), Sandusky Plains (Wyandot, Crawford, and Marion	evaluated for possible	Quantitative
	Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	Category 3 status	Rating
	Montgomery, Van Wert etc.).	Complete Quantitative Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	Oak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherode.
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumi
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellite
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwelli
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsi
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum	-	Helianthus grosseserratu
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicat
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflor
71 0	Parnassia glauca	Schechzeria palustris		Lythrum alatui
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianus
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceur
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutan
	Salix candida	Vaccinium oxycoccos		Spartina pectinat
	Salix myricoides	Woodwardia virginica		Solidago riddell
	Salix serissima	Xyris difformis		
	Solidago ohioensis	2		
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: Wetland L - Iro	nville Pipeline	Rater(s): S. Peffer/N. Daniels	Date: April 5, 2018
/ / M	letric 1. Wetland	Area (size).	
max 6 pls. subtotal Sel	elect one size class and assign size >50 acres (>20.2ha) (6 processed 25 to <50 acres (10.1 to 10 to <25 acres (4 to <10 acres (1.2 to <4 o.3 to <3 acres (0.12 to <4 o.1 to <0.3 acres (0.04 to <0.1 acres (0.04ha) (0 processed 0.04 to <0.1 acres (0.04ha) (0 processed 0.04 to <0.1 acres (0.04ha) (0 processed 0.04 to <0.1 acres (0.04ha) (0 processed 0.04ha)	ts) <20.2ha) (5 pts) 1.1ha) (4 pts) ha) (3 pts) :1.2ha) (2pts) ı <0.12ha) (1 pt)	
1 2 M	letric 2. Upland b	uffers and surroundi	ng land use.
2b.	WIDE. Buffers average: MEDIUM. Buffers avera NARROW. Buffers avera VERY NARROW. Buffer Intensity of surrounding land u VERY LOW. 2nd growth LOW. Old field (>10 yea MODERATELY HIGH. F	Select only one and assign score. Do 50m (164ft) or more around wetland per ge 25m to <50m (82 to <164ft) around vage 10m to <25m (32ft to <82ft) around saverage <10m (<32ft) around wetland se. Select one or double check and av or older forest, prairie, savannah, wildlies), shrub land, young second growth for the second growth g	rimeter (7) vetland perimeter (4) I wetland perimeter (1) I perimeter (0) erage. Ife area, etc. (7) erst. (5) rvation tillage, new fallow field. (3)
5.5 7.5	letric 3. Hydrolog	y.	
Зс.	Sources of Water. Score all the High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surporter water (4) Perennial surface water (5) Maximum water depth. Select >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6 (0.4m (<15.7in) (1) Modifications to natural hydroles	face water (3) (lake or stream) (5) 3d. I only one and assign score.	Connectivity. Score all that apply. 100 year floodplain (1) Between stream/lake and other human use (1) Part of wetland/upland (e.g. forest), complex (1) Part of riparian or upland corridor (1) Duration inundation/saturation. Score one or dbl check. Semi- to permanently inundated/saturated (4) Regularly inundated/saturated (3) Seasonally inundated (2) Seasonally saturated in upper 30cm (12in) (1) c and average.
/15	None or none apparent (Recovered (7) Recovering (3) Recent or no recovery (1	12) Check all disturbances observed	point source (nonstormwater) X filling/grading road bed/RR track dredging tother Taken but to a
4.5 12 N	letric 4. Habitat A	Alteration and Develo	pment. / adion
1.5	None or none apparent (Recovered (3) Recovering (2) Recent or no recovery (1 Habitat development. Select of Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2))	
4c.	. Habitat alteration. Score one o		1
sublotal this page	None or none apparent (Recovered (6) Recovering (3) Recent or no recovery (1	mowing grazing	shrub/sapling removal herbaceous/aquatic bed removal sedimentation dredging farming nutrient enrichment

Site: Wetland L - Ironville Pipeline	Rater(s): S. Peffer/	N. Daniels	Date: April 5, 2018
subtotal first page			
Metric 5. Special	Wetlands.		
Lake Erie coastal/tribu Lake Plain Sand Prairi Relict Wet Prairies (10 Known occurrence sta Significant migratory s Category 1 Wetland.	nd (5) tary wetland-unrestricted hyd tary wetland-restricted hydrol es (Oak Openings) (10)) te/federal threatened or enda ongbird/water fowl habitat or See Question 1 Qualitative Ra	ogy (5) ngered species (10) usage (10) ating (-10)	
Metric 6. Plant co	ommunities, into	erspersion, microt	opography.
max 20 pts. subtotal 6a. Wetland Vegetation Commu	nities. Vegetation (Community Cover Scale	
Score all present using 0 to 3 sca Aquatic bed Emergent Shrub	0 1	Absent or comprises <0.1ha (0.2) Present and either comprises so vegetation and is of moderate	nall part of wetland's quality, or comprises a
Forest Mudflats Open water	2	significant part but is of low queen Present and either comprises significant vegetation and is of moderate part and is of high quality	gnificant part of wetland's
Other6b. horizontal (plan view) Intersp	oersion. 3	Present and comprises significa vegetation and is of high quali	
Select only one.			
High (5)		Low spp diversity and/or predon	rings of populative or
Moderately high(4) Moderate (3)	low	disturbance tolerant native spe	
Moderately low (2)	mod	Native spp are dominant compo	_
Low (1)		although nonnative and/or dist	
None (0) 6c. Coverage of invasive plants.	Refer	can also be present, and spec moderately high, but generally	
to Table 1 ORAM long form for li		threatened or endangered spp	
or deduct points for coverage	high	A predominance of native specie	
Extensive >75% cover	• •	and/or disturbance tolerant na	
Moderate 25-75% cover (-	· ·	absent, and high spp diversity the presence of rare, threaten	-
Nearly absent <5% co	· ·	and presented of fare, and atom	od, or choolingered Spp
Absent (1)		Open Water Class Quality	
6d. Microlopography.		Absent <0.1ha (0.247 acres)	
Score all present using 0 to 3 sca Vegetated hummucks/		Low 0.1 to <1ha (0.247 to 2.47 a Moderate 1 to <4ha (2.47 to 9.8	
Coarse woody debris :	1 -	High 4ha (9.88 acres) or more	o acresj
Standing dead >25cm	The state of the s		
Amphibian breeding po		raphy Cover Scale	
-1.25.70	0	Absent	· management
	1	Present very small amounts or it of marginal quality	more common
	2	Present in moderate amounts, b quality or in small amounts of	
	3	Present in moderate or greater a	
13		and of highest quality	

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM Summary Worksheet

		circle answer or insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES (NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES (NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	1	
,g	Metric 2. Buffers and surrounding land use	1	
	Metric 3. Hydrology	5.5	
	Metric 4. Habitat	4.5	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	1	
	TOTAL SCORE	13	Category based on score breakpoints

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one	>	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	/Ng	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wettand should be evaluated for possible Category 3/sīātus	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland Is assigned to the appropriate category based on the scoring range	(NO)	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	№	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, loca or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

Final Category							
Choose one	Choose one Category 1 Category 2 Category 3						

End of Ohio Rapid Assessment Method for Wetlands.

Wetland M - Ironville Pipeline

Background Information

Name: S. Peffer / N. Daniels
Date: April 5, 2018
Affiliation: Utility Technologies International, Inc.
4700 Homer Ohio Lane, Groveport, OH
Phone Number: 614-482-8080
e-mail address: speffer@uti-corp.com
Name of Wetland M
Vegetation Communit(les): Emergent
HGM Class(es): Depressional
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.
See wetland maps.
sel Wellard works,
Lat/Long or UTM Coordinate 41deg40'4.48"N / 83deg28'24.55"W
USGS Quad Name Oregon, Ohio-Michigan
County Lucas
Township Oregon
Section and Subsection
Hydrologic Unit Code Lower Maumee - 04100010
National Wetland Inventory Map
Ohio Wetland Inventory Map
Soil Survey
Delineation report/map

Name of Wetland:	/etland M		
Wetland Size (acres, h	nectares): 4. 5 ac		/
Sketch: Include north	arrow, relationship with other surface waters, vege	tation zones, etc.	7
		>	/
		_/	
		\rightarrow	\mathcal{A}
	22	RIL	
	1	R	
		Q	
	11/	-+(1)	
1	1	A	
4/4	well and ly	U	
1		K	
	A I	× ×	
			/ 1
	*	In	lux was
	77		-100
	KP.		
		1 K	
		7	R
			λ
Comments, Narrative	Discussion, Justification of Category Changes:		
	NA		
	11.41.		
Final score :	10	Category:	1
. mai soole .	29	Jaiogo. J.	

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	V	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	1	
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.		
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		-/
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		//
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		~

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/dnap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

¥	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	NO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland. Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	NO Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly Sphagnum spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b

			0
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	13
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	(NO)
9h	elevation, or along a tributary to Lake Erie that is accessible to fish? Does the wetland's hydrology result from measures designed to	Go to Question 9b	Go to Question 10
90	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 9c
9c	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	NO
	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
9e	Does the wetland have a predominance of non-native or disturbance	Go to Question 10	NO
36	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status Go to Question 10	Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	(NO)
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	YES Wetland should be evaluated for possible Category 3 status Complete Quantitative Rating	Complete Quantitative Rating

Table 1. Characteristic plant species

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricto
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumi
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellite
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwelli
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsi
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratu
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicat
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflor
	Parnassia glauca	Schechzeria palustris		Lythrum alatur
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianun
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceu
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutan
	Salix candida	Vaccinium oxycoccos		Spartina pectinat
	Salix myricoides	Woodwardia virginica		Solidago riddell
	Salix serissima	Xyris difformis		5
	Solidago ohioensis	-		
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: Wetland M -	Ironville Pipeline	Rater(s): S. Peffer/N. Daniels		Date: April 5, 2018
	Metric 1. Wetland	Area (size).		
t 1		, ,		
max 6 pta subtotal §	Select one size class and assign so 50 acres (>20.2ha) (6 p			
	25 to <50 acres (10.1 to	20.2ha) (5 pts)		
	10 to <25 acres (4 to <10 3 to <10 acres (1.2 to <4)			
	0.3 to <3 acres (0.12 to <	1.2ha) (2pts)		
	0.1 to <0.3 acres (0.04 to <0.1 acres (0.04ha) (0 pt			
/ 3		uffers and surround	ing land us	e.
max 14 pts subtotal		Select only one and assign score. D		
		i0m (164ft) or more around wetland po pe 25m to <50m (82 to <164ft) around		4)
	NARROW. Buffers avera	ige 10m to <25m (32ft to <82ft) arour	id wetland perimeter	
2		s average <10m (<32ft) around wetlar se. Select one or double check and a		
•	VERY LOW. 2nd growth	or older forest, prairie, savannah, wild	llife area, etc. (7)	
		s), shrub land, young second growth esidential, fenced pasture, park, cons		fallow field (3)
	HIGH. Urban, industrial,	open pasture, row cropping, mining, c	onstruction. (1)	Tallow Hole. (5)
13 14	Metřic 3. Hydrolog	у.		
max 30 pts. subtotal	3a. Sources of Water. Score all the	at apply. 3b.	Connectivity. Score	
	High pH groundwater (5) Other groundwater (3)		100 year floo	dplain (1) am/lake and other human use (1)
	Precipitation (1)		Part of wetlar	nd/upland (e.g. forest), complex (1)
	Seasonal/Intermittent sur Perennial surface water (an or upland comidor (1) /saturation. Score one or dbl check
3	3c. Maximum water depth. Select		Semi- to perr	nanently inundated/saturated (4)
	>0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6i	n) (2)	Regularly inu Seasonally in	indated/saturated (3) nundated (2)
	<0.4m (<15.7in) (1)		Seasonally s	aturated in upper 30cm (12in) (1)
•		gic regime. Score one or double che		
	None or none apparent ((2) Check all disturbances observed		(nonstormwater)
= 1	Recovering (3)	tile	filling/grading	
	Recent or no recovery (1	dike weir	road bed/RR dredging	track
		stormwater input	other	
12 28	Metric 4. Habitat A	Iteration and Develo	pment.	
max 20 pls. subtotal	4a. Substrate disturbance, Score			
1	None or none apparent (4	1)		
4	Recovering (2)			
4	Recent or no recovery (1 4b. Habitat development, Select o			
	Excellent (7)			
	Very good (6) Cood (5)			
	Moderately good (4)			
	Fair (3) Poor to fair (2)			
	Poor (1)	a devile about and average		
4	4c. Habitat alteration. Score one of None or none apparent (
11	Possessed (C)	mowing	shrub/sapling	removal
7(1	Recovered (6) Recovering (3) Recent or no recovery (1	grazing clearcutting	herbaceous/a	aquatic bed removal
		selective cutting	dredging	"
28		woody debris removal toxic pollutants	farming nutrient enric	hment
subtotal this page		CAT toyle boundaries		THITEIN.
last revised 1 February	/ 2001 jjm			

Site:	Wetland M -	Ironville Pipeline	Rater(s):	S. Peffer/N	I. Daniels	Date: April 5, 2018
	28 sublotal first pa	ī				
8	28	Metric 5. Special	Wetlands	5.		
max 10 pts	subtotal	Check all that apply and score as Bog (10) Fen (10) Old growth forest (10) Mature forested wetlan Lake Erie coastal/tribut Lake Erie coastal/tribut Lake Plain Sand Prairie Relict Wet Prairies (10) Known occurrence stat Significant migratory so Category 1 Wetland, S	ed (5) lary wetland-unrestary wetland-restri es (Oak Openings) te/federal threaten ongbird/water fowl	cted hydrolo i) (10) ned or endan I habitat or u ualitative Rat	gy (5) gered species (10) sage (10) ting (-10)	
	19	Metric 6. Plant co	ommunitie	es, inte	rspersion, microt	opograpny.
max 20 pts	subtotal	6a. Wetland Vegetation Commu	nities. V	egetation C	ommunity Cover Scale	
		Score all present using 0 to 3 sca	ale.	0	Absent or comprises <0.1ha (0.2	
		Aquatic bed	_	1	Present and either comprises sn	nall part of wetland's
		Emergent			vegetation and is of moderate	quality, or comprises a
		Shrub	_		significant part but is of low qui	
		Forest		2	Present and either comprises sig	•
		Mudflats			vegetation and is of moderate	quality or comprises a small
		Open water	_		part and is of high quality	
		Other		3	Present and comprises significant	
		6b. horizontal (plan view) Intersp	ersion		vegetation and is of high qualit	<u> </u>
		Select only one.				
		High (5)	<u>N</u>	-	cription of Vegetation Quality	
		Moderately high(4)		low	Low spp diversity and/or predom	
		Moderate (3)	-		disturbance tolerant native spe	
		Moderately low (2)		mod	Native spp are dominant compor	- ·
		Low (1)			although nonnative and/or dist	* *
		None (0)			can also be present, and speci	=
		6c. Coverage of invasive plants.			moderately high, but generally	
		to Table 1 ORAM long form for lis	- Add –	1-1-b	threatened or endangered spp	
		or deduct points for coverage	/ E\	high	A predominance of native specie	
		Extensive >75% cover			and/or disturbance tolerant nat	
	-	Moderate 25-75% cover (-			absent, and high spp diversity	
		Oparac o-zoro corci (-	· —		the presence of rare, threatene	or endangered spp
		Nearly absent <5% cov Absent (1)		ludflat and f	Open Water Class Quality	
		6d. Microlopography.	110		Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 sca		1	Low 0.1 to <1ha (0.247 to 2.47 a	icros)
		Vegetated hummucks/		2	Moderate 1 to <4ha (2.47 to 9.8	
		Coarse woody debris >	_	3	High 4ha (9.88 acres) or more	o acres)
		Standing dead >25cm		•	riigii 4ila (5,00 acres) or illore	
		/ Amphibian breeding po	- ve	licrotopogra	phy Cover Scale	
			8.6	0	Absent	
			_	1	Present very small amounts or if	more common
					of marginal quality	
			_	2	Present in moderate amounts, be	ut not of highest
					quality or in small amounts of h	
			_	3	Present in moderate or greater a	-
10	7		_		and of highest quality	<u> </u>

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM Summary Worksheet

		circle answer or insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES (10)	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO)	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	2	
	Metric 2. Buffers and surrounding land use	1	
	Metric 3. Hydrology	13	THOU THE
	Metric 4. Habitat	12	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	1	
	TOTAL SCORE	29	Category based on score breakpoints

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one	0	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	(NO)	is quantitative rating score less than the Calegory 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category a status	(NO)	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland Is assigned to the appropriate category based on the scoring range	(AO)	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	≥ (2)	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the welland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the welland was not categorized as a Category 2 welland (in the case of moderate functions) or a Category 3 welland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, loca or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

Final Category					
Choose one	Category 1	Category 2	Category 3	Ξ	
				_	

End of Ohio Rapid Assessment Method for Wetlands.

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11/14/2018 5:19:33 PM

in

Case No(s). 18-1601-GA-BLN

Summary: Letter of Notification - Attachment J (Part 4 of 4) electronically filed by Mr. Michael J. Settineri on behalf of Generation Pipeline LLC